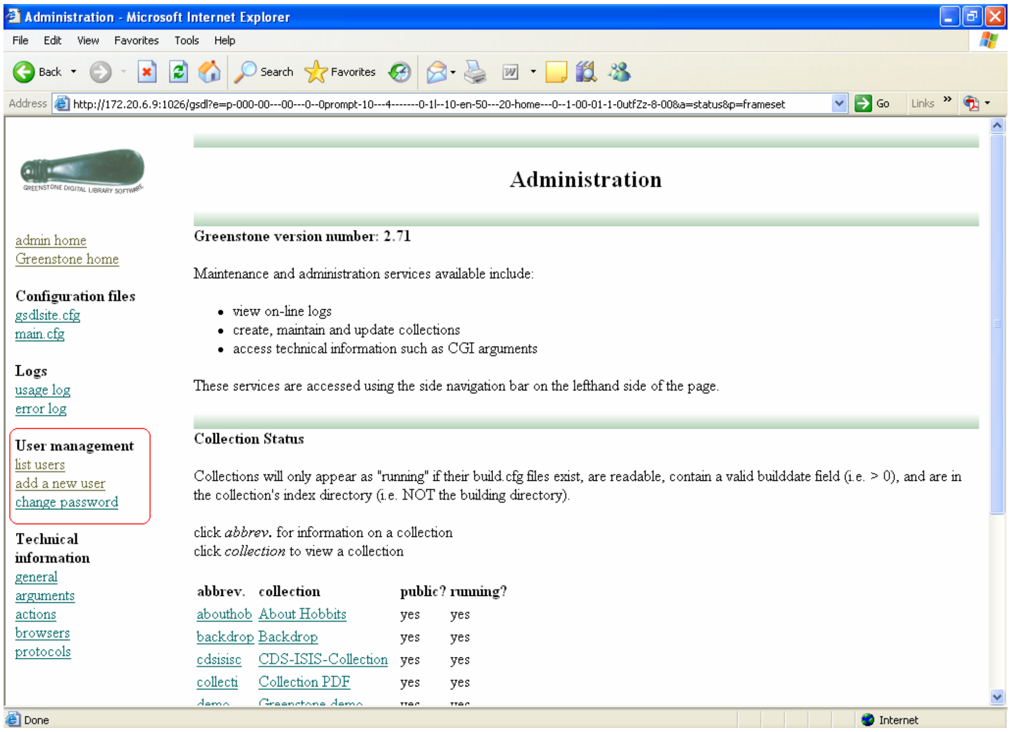
Greenstone User Administration and Authentication

Greenstone incorporates an authentication scheme which can be used to control access to certain facilities. At the moment this is only used torestrict the people who are allowed to enter the Collector and certain administration functions. If, for a particular collection, it were necessary to authenticate users before returning information to them, this is possible too—for example, documents could be protected on an individual basis so that they can only be accessed by registered users on presentation of a password. However, no current collections use this facility). Authentication is done by requesting a user name and password.

To access the Administration Facility, click the appropriate link on the front page. Then you will be taken to the below screen. You can see the "**User Management"** Section on the left side frame. Here you can make authorized users to access collections/ documents. From the administration page users can be listed, new ones added, and old ones deleted. The ability to do this is of course also protected: only users who have administrative privileges can add new users. It is also possible for each user to belong to different "groups".



http://172.20.6.9:1026/gsdl?e=p-000-00---00---0--0prompt-10---4-------0-1l--10-en-50---20-home---0--1-00-01-1-0utfZz-8-00&a=status&p=frameset

Administration

Greenstone version number: 2.71

Maintenance and administration services available include:

- view on-line logs
- create, maintain and update collections
- access technical information such as CGI arguments

These services are accessed using the side navigation bar on the lefthand side of the page.

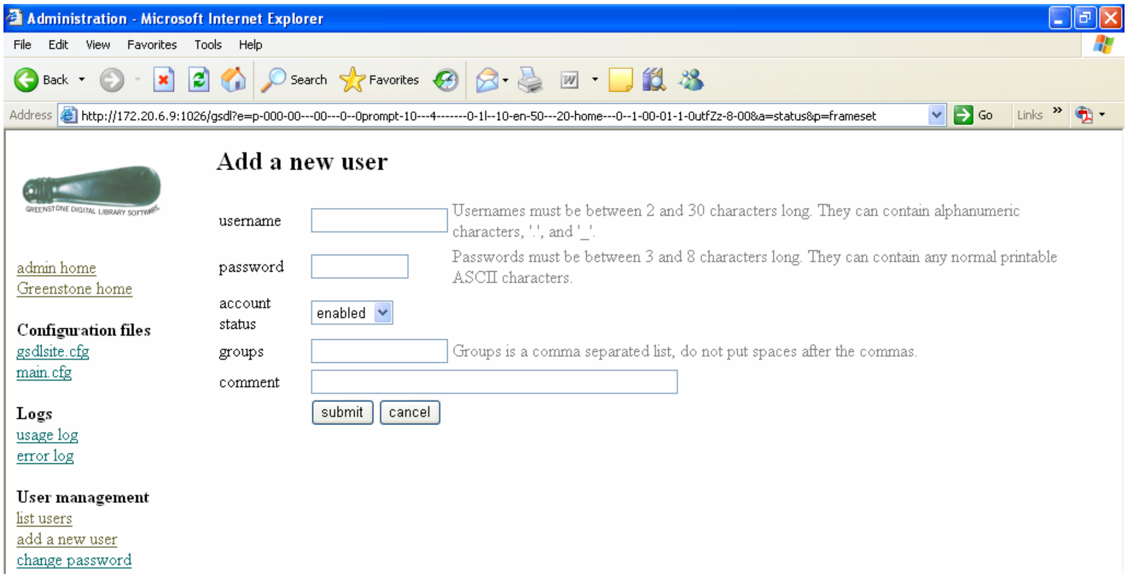
Collection Status

Collections will only appear as "running" if their build.cfg files exist, are readable, contain a valid builddate field (i.e. > 0), and are in the collection's index directory (i.e. NOT the building directory).

click *abbrev.* for information on a collection
click *collection* to view a collection

abbrev.	collection	public?	running?
abouthob	About Hobbits	yes	yes
backdrop	Backdrop	yes	yes
cdsisisc	CDS-ISIS-Collection	yes	yes
collecti	Collection PDF	yes	yes
demo	Greenstone demo	yes	yes

For adding a new user click on the "*add a new user*" link. Then you will be asked to give the username and password. The default username is *admin* and password is '*admin*'. Then you will be taken to the following page:


Administration - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back
Search
Favorites
Address
Go
Links
GREENSTONE DIGITAL LIBRARY SOFTWARE

http://172.20.6.9:1026/gsdl?e=p-000-00---00---0-0prompt-10---4-------0-1l--10-en-50---20-home---0--1-00-01-1-0utfZz-8-00&a=status&p=frameset

admin home
Greenstone home

Configuration files
gsdlsite.cfg
main.cfg

Logs
usage log
error log

User management
list users
add a new user
change password

Add a new user

username — Usernames must be between 2 and 30 characters long. They can contain alphanumeric characters, '.', and '_'.

password — Passwords must be between 3 and 8 characters long. They can contain any normal printable ASCII characters.

account status: enabled

groups — Groups is a comma separated list, do not put spaces after the commas.

comment

submit cancel

Fill the columns with a new user name and the password information. Provide a name for groups (Eg: *faculty*) and click submit button. Now you can see the List of current users. You can add more number of users in the same group.

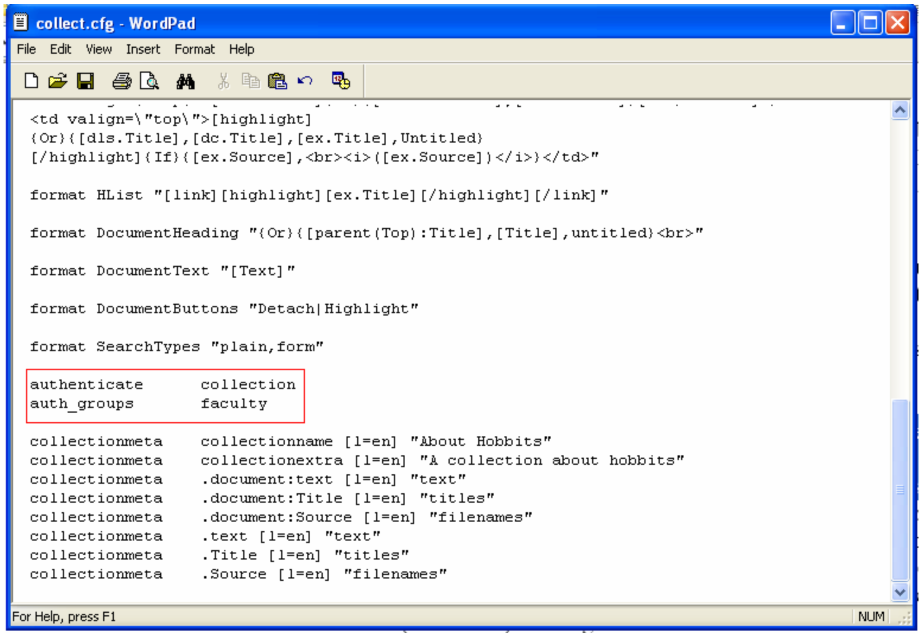
Collection Authentication

Greenstone Authentication can be done in (a) Collection level as well as (b) Individual Document level. Authentication strings should be given in the collection configuration file of the target collection.

File Location: ../greenstone/collect/ ‘collection name’/etc/collect.cfg

Authentication : Collection Level

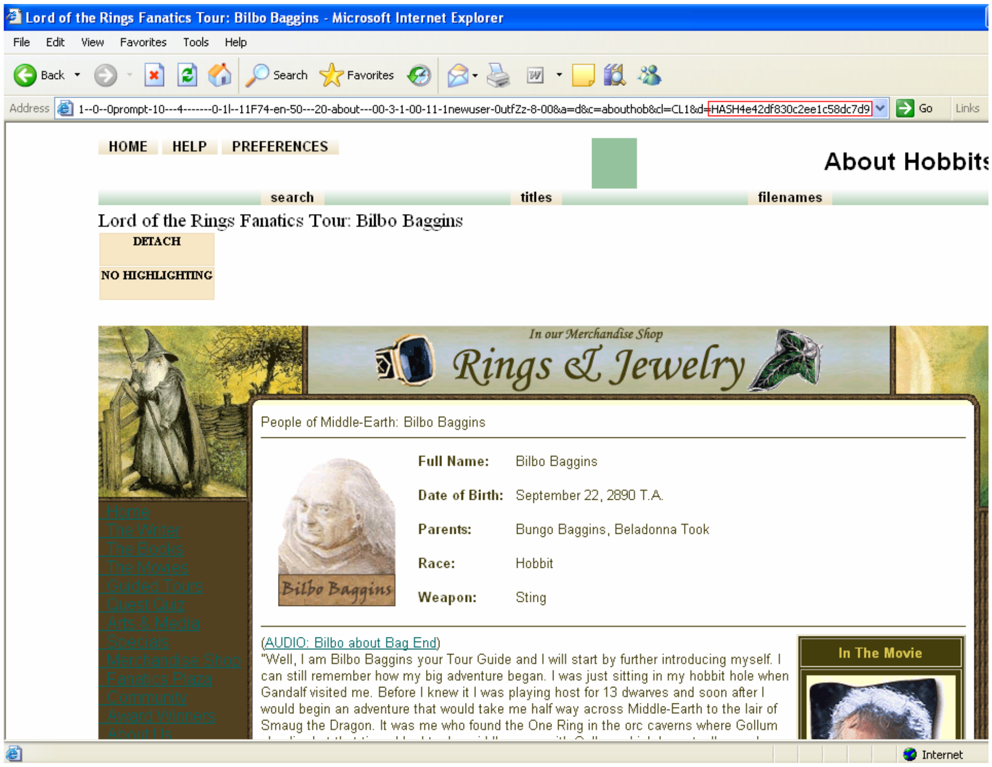
The authentication string should be given just above the collectionmeta strings as below. Save and close the file



```
<td valign=\"top\">[highlight]
{Or}{[dls.Title],[dc.Title],[ex.Title],Untitled}
[/highlight]{If}{[ex.Source],<br><i>([ex.Source])</i>}</td>"

format HList "[link][highlight][ex.Title][/highlight][/link]"

format DocumentHeading "{Or}{[parent(Top):Title],[Title],untitled}<br>"

format DocumentText "[Text]"

format DocumentButtons "Detach|Highlight"

format SearchTypes "plain,form"

authenticate      collection
auth_groups       faculty

collectionmeta    collectionname [l=en] "About Hobbits"
collectionmeta    collectionextra [l=en] "A collection about hobbits"
collectionmeta    .document:text [l=en] "text"
collectionmeta    .document:Title [l=en] "titles"
collectionmeta    .document:Source [l=en] "filenames"
collectionmeta    .text [l=en] "text"
collectionmeta    .Title [l=en] "titles"
collectionmeta    .Source [l=en] "filenames"
```

Authentication: Document Level:

For restricting a particular document in a collection, you have to find out the corresponding document ID (Eg: HASH4e42df830c2ee1c58dc7d9) and include in the authentication string. The easy way to find out the document ID is to open the document in the DL and click on the address bar, you can see a number starting with ‘Hash…. (See the following figure)



Address 1--0--0prompt-10---4-------0-1l--11F74-en-50---20-about---00-3-1-00-11-1newuser-0utfZz-8-00&a=d&c=abouthob&cl=CL1&d=HASH4e42df830c2ee1c58dc7d9

Lord of the Rings Fanatics Tour: Bilbo Baggins

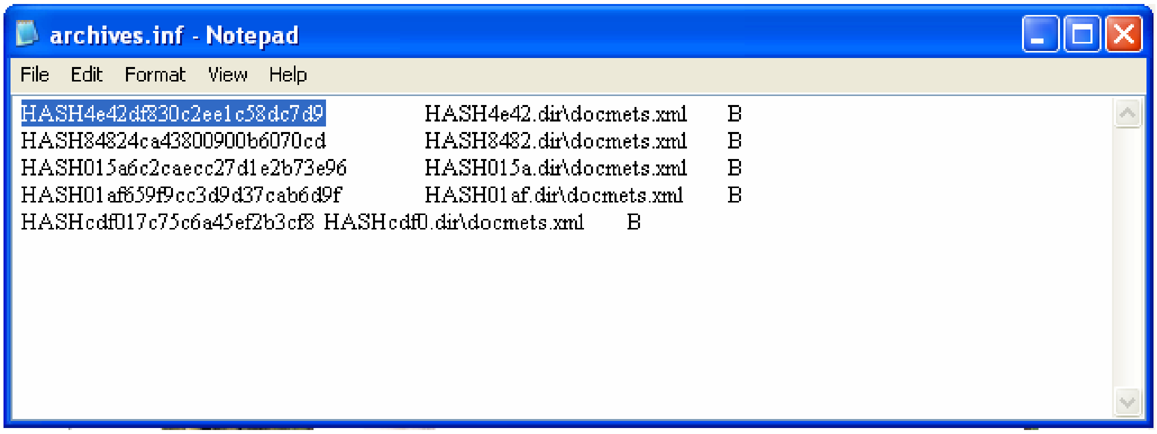
People of Middle-Earth: Bilbo Baggins

Full Name:	Bilbo Baggins
Date of Birth:	September 22, 2890 T.A.
Parents:	Bungo Baggins, Beladonna Took
Race:	Hobbit
Weapon:	Sting

(AUDIO: Bilbo about Bag End)
"Well, I am Bilbo Baggins your Tour Guide and I will start by further introducing myself. I can still remember how my big adventure began. I was just sitting in my hobbit hole when Gandalf visited me. Before I knew it I was playing host for 13 dwarves and soon after I would begin an adventure that would take me half way across Middle-Earth to the lair of Smaug the Dragon. It was me who found the One Ring in the orc caverns where Gollum

The complete document ID can be taken from:

../Greenstone/collect/ ‘collection name’/archives/archive.inf (see the below figure)



```
HASH4e42df830c2ee1c58dc7d9          HASH4e42.dir\docmets.xml     B
HASH84824ca43800900b6070cd          HASH8482.dir\docmets.xml     B
HASH015a6c2caecc27d1e2b73e96        HASH015a.dir\docmets.xml     B
HASH01af659f9cc3d9d37cab6d9f        HASH01af.dir\docmets.xml     B
HASHcdf017c75c6a45ef2b3cf8 HASHcdf0.dir\docmets.xml     B
```

Copy the document ID and add in the authentication string as below:

```
authenticate          document
private_documents     HASH4e42df830c2ee1c58dc7d9
auth_groups           faculty
```

Use ‘space’ to add another document ID in the second line. Save and close the collect.cfg file.

Restart the Greenstone Digital Library Software and click on the target collection/ document, you will be asked for user name and password.

Greenstone Authentication Scheme is given below, go through it for further clarification.

Greenstone Authentication Scheme

The authentication scheme controls access to the collection. It works in two steps. First it determines whether to restrict access to the collection as a whole or to individual documents in it, and in the latter case which documents those are (either by giving a list of private documents for which access is to be authenticated, or specifying that all documents are private except for a given list of public documents). Then for access-restricted documents it determines which users are to have access.

Authentication is activated by the ***authenticate*** directive with the value ***collection*** or ***document*** depending on whether authentication is to be performed on the full collection or on a per-document basis (the default value is *collection*). If authentication is on a *document* basis, then one can *either* specify a list of private documents (in which case all others are public) or a list of public documents (in which case all others are private) using directives ***private_documents*** or ***public_documents***. The documents themselves are specified using Greenstone document identifiers (separated by spaces): the easiest way to determine these is to locate each document in the collection and look at the *d* argument in its Greenstone URL.

The ***auth_groups*** directive specifies the Greenstone groups for to which access will be permitted, if the document (or collection) is one of those that requires authentication. It is followed by a group name (or a list of group names separated by spaces). The Greenstone *admin* pages allow you to define groups and add members to them.

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